In [1]: import pandas as pd

In [2]: data= pd.read\_csv('weather data.csv')

In [3]: data

Out[3]:

:	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather
0	1/1/2012 0:00	-1.8	-3.9	86	4	8.0	101.24	Fog
1	1/1/2012 1:00	-1.8	-3.7	87	4	8.0	101.24	Fog
2	1/1/2012 2:00	-1.8	-3.4	89	7	4.0	101.26	Freezing Drizzle,Fog
3	1/1/2012 3:00	-1.5	-3.2	88	6	4.0	101.27	Freezing Drizzle,Fog
4	1/1/2012 4:00	-1.5	-3.3	88	7	4.8	101.23	Fog
•••								
8779	12/31/2012 19:00	0.1	-2.7	81	30	9.7	100.13	Snow
8780	12/31/2012 20:00	0.2	-2.4	83	24	9.7	100.03	Snow
8781	12/31/2012 21:00	-0.5	-1.5	93	28	4.8	99.95	Snow
8782	12/31/2012 22:00	-0.2	-1.8	89	28	9.7	99.91	Snow
8783	12/31/2012 23:00	0.0	-2.1	86	30	11.3	99.89	Snow

8784 rows × 8 columns

In [4]: data.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 8784 entries, 0 to 8783
Data columns (total 8 columns):

#	Column	Non-Null Count	Dtype
0	Date/Time	8784 non-null	object
1	Temp_C	8784 non-null	float64
2	Dew Point Temp_C	8784 non-null	float64
3	Rel Hum_%	8784 non-null	int64
4	Wind Speed_km/h	8784 non-null	int64
5	Visibility_km	8784 non-null	float64
6	Press_kPa	8784 non-null	float64
7	Weather	8784 non-null	object

dtypes: float64(4), int64(2), object(2)

memory usage: 549.1+ KB

In [5]: data.head()

Out[5]:		Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather
	0	1/1/2012 0:00	-1.8	-3.9	86	4	8.0	101.24	Fog
	1	1/1/2012 1:00	-1.8	-3.7	87	4	8.0	101.24	Fog
	2	1/1/2012 2:00	-1.8	-3.4	89	7	4.0	101.26	Freezing Drizzle,Fog
	3	1/1/2012 3:00	-1.5	-3.2	88	6	4.0	101.27	Freezing Drizzle,Fog
	4	1/1/2012 4:00	-1.5	-3.3	88	7	4.8	101.23	Fog

In [6]: data.shape

Out[6]: (8784, 8)

In [7]: data.index

Out[7]: RangeIndex(start=0, stop=8784, step=1)

In [8]: data.columns

```
Out[8]: Index(['Date/Time', 'Temp C', 'Dew Point Temp C', 'Rel Hum %',
                  'Wind Speed km/h', 'Visibility km', 'Press kPa', 'Weather'],
                dtvpe='object')
 In [9]:
         data.dtvpes
 Out[9]: Date/Time
                                object
          Temp C
                               float64
          Dew Point Temp C
                               float64
          Rel Hum %
                                 int64
          Wind Speed km/h
                                 int64
          Visibility km
                               float64
                               float64
          Press kPa
          Weather
                                object
          dtype: object
In [10]: data['Weather'].unique()
Out[10]: array(['Fog', 'Freezing Drizzle, Fog', 'Mostly Cloudy', 'Cloudy', 'Rain',
                  'Rain Showers', 'Mainly Clear', 'Snow Showers', 'Snow', 'Clear',
                  'Freezing Rain, Fog', 'Freezing Rain', 'Freezing Drizzle',
                  'Rain, Snow', 'Moderate Snow', 'Freezing Drizzle, Snow',
                  'Freezing Rain, Snow Grains', 'Snow, Blowing Snow', 'Freezing Fog',
                  'Haze', 'Rain, Fog', 'Drizzle, Fog', 'Drizzle',
                  'Freezing Drizzle, Haze', 'Freezing Rain, Haze', 'Snow, Haze',
                  'Snow,Fog', 'Snow,Ice Pellets', 'Rain,Haze', 'Thunderstorms,Rain',
                  'Thunderstorms, Rain Showers', 'Thunderstorms, Heavy Rain Showers',
                  'Thunderstorms, Rain Showers, Fog', 'Thunderstorms',
                  'Thunderstorms, Rain, Fog',
                  'Thunderstorms, Moderate Rain Showers, Fog', 'Rain Showers, Fog',
                  'Rain Showers, Snow Showers', 'Snow Pellets', 'Rain, Snow, Fog',
                  'Moderate Rain, Fog', 'Freezing Rain, Ice Pellets, Fog',
                  'Drizzle,Ice Pellets,Fog', 'Drizzle,Snow', 'Rain,Ice Pellets',
                  'Drizzle, Snow, Fog', 'Rain, Snow Grains', 'Rain, Snow, Ice Pellets',
                  'Snow Showers, Fog', 'Moderate Snow, Blowing Snow'], dtype=object)
In [11]: data['Weather'].nunique()
```

Out[11]: 50

```
In [12]: data.nunique()
Out[12]: Date/Time
                             8784
         Temp C
                              533
         Dew Point Temp C
                              489
         Rel Hum_%
                               83
         Wind Speed_km/h
                               34
         Visibility km
                               24
                              518
         Press_kPa
         Weather
                               50
         dtype: int64
In [13]: data.count()
Out[13]: Date/Time
                             8784
         Temp_C
                             8784
         Dew Point Temp_C
                             8784
         Rel Hum_%
                             8784
         Wind Speed_km/h
                             8784
         Visibility_km
                             8784
         Press_kPa
                             8784
         Weather
                             8784
         dtype: int64
In [14]: data['Weather'].value_counts()
```

## Out[14]: Weather Mainly Clear 2106 Mostly Cloudy 2069 Cloudy 1728 Clear 1326 390 Snow Rain 306 Rain Showers 188 Fog 150 Rain, Fog 116 Drizzle, Fog 80 Snow Showers 60 Drizzle 41 Snow, Fog 37 Snow, Blowing Snow 19 Rain, Snow 18 Thunderstorms, Rain Showers 16 16 Haze Drizzle, Snow, Fog 15 Freezing Rain 14 Freezing Drizzle, Snow 11 Freezing Drizzle 7 Snow, Ice Pellets 6 Freezing Drizzle, Fog 6 Snow, Haze 5 Freezing Fog Snow Showers, Fog Moderate Snow Rain, Snow, Ice Pellets Freezing Rain, Fog Freezing Drizzle, Haze 3 Rain, Haze Thunderstorms, Rain 3 Thunderstorms, Rain Showers, Fog 3 Freezing Rain, Haze Drizzle, Snow 2 Rain Showers, Snow Showers 2 Thunderstorms 2 Moderate Snow, Blowing Snow 2 Rain Showers, Fog 1

Thunderstorms, Moderate Rain Showers, Fog	1
Snow Pellets	1
Rain, Snow, Fog	1
Moderate Rain, Fog	1
Freezing Rain, Ice Pellets, Fog	1
Drizzle,Ice Pellets,Fog	1
Thunderstorms, Rain, Fog	1
Rain, Ice Pellets	1
Rain, Snow Grains	1
Thunderstorms, Heavy Rain Showers	1
Freezing Rain, Snow Grains	1
Name: count, dtype: int64	

In [15]: #Find when the weather was clear
data[data.Weather == 'Clear']

Out[15]:

:		Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather
	67	1/3/2012 19:00	-16.9	-24.8	50	24	25.0	101.74	Clear
	114	1/5/2012 18:00	-7.1	-14.4	56	11	25.0	100.71	Clear
	115	1/5/2012 19:00	-9.2	-15.4	61	7	25.0	100.80	Clear
	116	1/5/2012 20:00	-9.8	-15.7	62	9	25.0	100.83	Clear
	117	1/5/2012 21:00	-9.0	-14.8	63	13	25.0	100.83	Clear
	•••			<b></b>					
8	646	12/26/2012 6:00	-13.4	-14.8	89	4	25.0	102.47	Clear
8	698	12/28/2012 10:00	-6.1	-8.6	82	19	24.1	101.27	Clear
8	713	12/29/2012 1:00	-11.9	-13.6	87	11	25.0	101.31	Clear
8	714	12/29/2012 2:00	-11.8	-13.1	90	13	25.0	101.33	Clear
8	756	12/30/2012 20:00	-13.8	-16.5	80	24	25.0	101.52	Clear

1326 rows × 8 columns

•	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather
(	1/1/2012 0:00	-1.8	-3.9	86	4	8.0	101.24	Fog
,	1/1/2012 1:00	-1.8	-3.7	87	4	8.0	101.24	Fog
9	1/5/2012 0:00	-8.8	-11.7	79	4	9.7	100.32	Snow
10	1/5/2012 5:00	-7.0	-9.5	82	4	4.0	100.19	Snow
14	<b>6</b> 1/7/2012 2:00	-8.1	-11.1	79	4	19.3	100.15	Cloudy
•								
876	<b>8</b> 12/31/2012 8:00	-8.6	-10.3	87	4	3.2	101.14	Snow Showers
876	9 12/31/2012 9:00	-8.1	-9.6	89	4	2.4	101.09	Snow
877	<b>1</b> 2/31/2012 10:00	-7.4	-8.9	89	4	6.4	101.05	Snow,Fog
877	2 12/31/2012 12:00	-5.8	-7.5	88	4	12.9	100.78	Snow
877	<b>3</b> 12/31/2012 13:00	-4.6	-6.6	86	4	12.9	100.63	Snow

In [19]: data.isnull().sum()

```
Out[19]: Date/Time 0
Temp_C 0
Dew Point Temp_C 0
Rel Hum_% 0
Wind Speed_km/h 0
Visibility_km 0
Press_kPa 0
Weather 0
dtype: int64
```

In [20]: data.rename(columns = {'Weather' : 'Weather\_Condition'})

TII [20].	da ca i i citaliici	COTAIIII	Mederici	•	Mederier_condition	) /

Out[20]:		Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather_Condition
	0	1/1/2012 0:00	-1.8	-3.9	86	4	8.0	101.24	Fog
	1	1/1/2012 1:00	-1.8	-3.7	87	4	8.0	101.24	Fog
	2	1/1/2012 2:00	-1.8	-3.4	89	7	4.0	101.26	Freezing Drizzle,Fog
	3	1/1/2012 3:00	-1.5	-3.2	88	6	4.0	101.27	Freezing Drizzle,Fog
	4	1/1/2012 4:00	-1.5	-3.3	88	7	4.8	101.23	Fog
	•••								
	8779	12/31/2012 19:00	0.1	-2.7	81	30	9.7	100.13	Snow
	8780	12/31/2012 20:00	0.2	-2.4	83	24	9.7	100.03	Snow
	8781	12/31/2012 21:00	-0.5	-1.5	93	28	4.8	99.95	Snow
	8782	12/31/2012 22:00	-0.2	-1.8	89	28	9.7	99.91	Snow
	8783	12/31/2012 23:00	0.0	-2.1	86	30	11.3	99.89	Snow

8784 rows × 8 columns

In [21]: data

Out[21]:		Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather
	0	1/1/2012 0:00	-1.8	-3.9	86	4	8.0	101.24	Fog
	1	1/1/2012 1:00	-1.8	-3.7	87	4	8.0	101.24	Fog
	2	1/1/2012 2:00	-1.8	-3.4	89	7	4.0	101.26	Freezing Drizzle,Fog
	3	1/1/2012 3:00	-1.5	-3.2	88	6	4.0	101.27	Freezing Drizzle,Fog
	4	1/1/2012 4:00	-1.5	-3.3	88	7	4.8	101.23	Fog
	•••				•••				
8	3779	12/31/2012 19:00	0.1	-2.7	81	30	9.7	100.13	Snow
8	3780	12/31/2012 20:00	0.2	-2.4	83	24	9.7	100.03	Snow
8	3781	12/31/2012 21:00	-0.5	-1.5	93	28	4.8	99.95	Snow
8	3782	12/31/2012 22:00	-0.2	-1.8	89	28	9.7	99.91	Snow
8	3783	12/31/2012 23:00	0.0	-2.1	86	30	11.3	99.89	Snow

```
In [22]: data.rename(columns = {'Weather' : 'Weather_Condition'}, inplace= True)
```

In [23]: data

Out[23]:		Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather_Condition
	0	1/1/2012 0:00	-1.8	-3.9	86	4	8.0	101.24	Fog
	1	1/1/2012 1:00	-1.8	-3.7	87	4	8.0	101.24	Fog
	2	1/1/2012 2:00	-1.8	-3.4	89	7	4.0	101.26	Freezing Drizzle,Fog
	3	1/1/2012 3:00	-1.5	-3.2	88	6	4.0	101.27	Freezing Drizzle,Fog
	4	1/1/2012 4:00	-1.5	-3.3	88	7	4.8	101.23	Fog
	•••								
	8779	12/31/2012 19:00	0.1	-2.7	81	30	9.7	100.13	Snow
	8780	12/31/2012 20:00	0.2	-2.4	83	24	9.7	100.03	Snow
	8781	12/31/2012 21:00	-0.5	-1.5	93	28	4.8	99.95	Snow
	8782	12/31/2012 22:00	-0.2	-1.8	89	28	9.7	99.91	Snow
	8783	12/31/2012 23:00	0.0	-2.1	86	30	11.3	99.89	Snow

```
In [24]: data['Visibility_km'].mean()
Out[24]: 27.664446721311478
```

```
In [25]: data['Press_kPa'].std()
```

Out[25]: 0.8440047459486474

In [26]: #If in column name their is no space (Visibility\_km) we can write as data.column\_name
# If there is a space in column name (wind speed) then we have to write as data['column name']

```
In [27]: data['Rel Hum_%'].var()
```

Out[27]: 286.2485501984998

In [28]: data[data.Weather\_Condition == 'Snow']

-		-	_	_	-	
( )	1.14	- 1	. )	$\circ$	- 1	
$\cup$	uι		_	$\circ$	- 1	
_		- L		_	а.	-

•	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather_Condition
55	1/3/2012 7:00	-14.0	-19.5	63	19	25.0	100.95	Snow
84	1/4/2012 12:00	-13.7	-21.7	51	11	24.1	101.25	Snow
86	1/4/2012 14:00	-11.3	-19.0	53	7	19.3	100.97	Snow
87	1/4/2012 15:00	-10.2	-16.3	61	11	9.7	100.89	Snow
88	1/4/2012 16:00	-9.4	-15.5	61	13	19.3	100.79	Snow
•••	<b></b>	•••						
8779	12/31/2012 19:00	0.1	-2.7	81	30	9.7	100.13	Snow
8780	12/31/2012 20:00	0.2	-2.4	83	24	9.7	100.03	Snow
8781	12/31/2012 21:00	-0.5	-1.5	93	28	4.8	99.95	Snow
8782	12/31/2012 22:00	-0.2	-1.8	89	28	9.7	99.91	Snow
8783	12/31/2012 23:00	0.0	-2.1	86	30	11.3	99.89	Snow

In [29]: data.Weather\_Condition.value\_counts()

## Out[29]: Weather Condition Mainly Clear 2106 Mostly Cloudy 2069 Cloudy 1728 Clear 1326 390 Snow Rain 306 Rain Showers 188 Fog 150 Rain, Fog 116 Drizzle, Fog 80 Snow Showers 60 Drizzle 41 37 Snow, Fog Snow, Blowing Snow 19 Rain, Snow 18 Thunderstorms, Rain Showers 16 16 Haze Drizzle, Snow, Fog 15 Freezing Rain 14 Freezing Drizzle, Snow 11 Freezing Drizzle 7 Snow, Ice Pellets 6 Freezing Drizzle, Fog 6 Snow, Haze 5 Freezing Fog Snow Showers, Fog Moderate Snow Rain, Snow, Ice Pellets Freezing Rain, Fog Freezing Drizzle, Haze 3 Rain, Haze Thunderstorms, Rain 3 Thunderstorms, Rain Showers, Fog 3 Freezing Rain, Haze Drizzle, Snow 2 Rain Showers, Snow Showers 2 Thunderstorms 2 Moderate Snow, Blowing Snow 2 Rain Showers, Fog 1

```
Thunderstorms, Moderate Rain Showers, Fog
                                                         1
          Snow Pellets
                                                         1
          Rain, Snow, Fog
                                                         1
          Moderate Rain, Fog
                                                         1
          Freezing Rain, Ice Pellets, Fog
                                                         1
          Drizzle, Ice Pellets, Fog
                                                         1
          Thunderstorms, Rain, Fog
                                                         1
          Rain, Ice Pellets
                                                         1
          Rain, Snow Grains
                                                         1
          Thunderstorms, Heavy Rain Showers
                                                        1
          Freezing Rain, Snow Grains
                                                         1
          Name: count, dtype: int64
In [30]: data[data['Weather_Condition'] == 'Rain'].shape[0]
Out[30]: 306
In [31]: data[(data['Wind Speed_km/h'] > 24) & (data['Visibility_km'] == 25)]
```

Out[31]:		Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather_Condition
	23	1/1/2012 23:00	5.3	2.0	79	30	25.0	99.31	Cloudy
	24	1/2/2012 0:00	5.2	1.5	77	35	25.0	99.26	Rain Showers
	25	1/2/2012 1:00	4.6	0.0	72	39	25.0	99.26	Cloudy
	26	1/2/2012 2:00	3.9	-0.9	71	32	25.0	99.26	Mostly Cloudy
	27	1/2/2012 3:00	3.7	-1.5	69	33	25.0	99.30	Mostly Cloudy
	•••		•••						
	8705	12/28/2012 17:00	-8.6	-12.0	76	26	25.0	101.34	Mainly Clear
	8753	12/30/2012 17:00	-12.1	-15.8	74	28	25.0	101.26	Mainly Clear
	8755	12/30/2012 19:00	-13.4	-16.5	77	26	25.0	101.47	Mainly Clear
	8759	12/30/2012 23:00	-12.1	-15.1	78	28	25.0	101.52	Mostly Cloudy
	8760	12/31/2012 0:00	-11.1	-14.4	77	26	25.0	101.51	Cloudy

Out[40]:		Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather_Condition
	0	-1.8	-3.9	86	4	8.0	101.24	Fog
	1	-1.8	-3.7	87	4	8.0	101.24	Fog
	2	-1.8	-3.4	89	7	4.0	101.26	Freezing Drizzle,Fog
	3	-1.5	-3.2	88	6	4.0	101.27	Freezing Drizzle,Fog
	4	-1.5	-3.3	88	7	4.8	101.23	Fog
	•••							
	8779	0.1	-2.7	81	30	9.7	100.13	Snow
	8780	0.2	-2.4	83	24	9.7	100.03	Snow
	8781	-0.5	-1.5	93	28	4.8	99.95	Snow
	8782	-0.2	-1.8	89	28	9.7	99.91	Snow
	8783	0.0	-2.1	86	30	11.3	99.89	Snow

In [41]: Data2.groupby('Weather\_Condition').mean()

Out[41]:

Weather_Condition						
Clear	6.825716	0.089367	64.497738	10.557315	30.153243	101.587443
Cloudy	7.970544	2.375810	69.592593	16.127315	26.625752	100.911441
Drizzle	7.353659	5.504878	88.243902	16.097561	17.931707	100.435366
Drizzle,Fog	8.067500	7.033750	93.275000	11.862500	5.257500	100.786625
Drizzle,Ice Pellets,Fog	0.400000	-0.700000	92.000000	20.000000	4.000000	100.790000
Drizzle,Snow	1.050000	0.150000	93.500000	14.000000	10.500000	100.890000
Drizzle,Snow,Fog	0.693333	0.120000	95.866667	15.533333	5.513333	99.281333
Fog	4.303333	3.159333	92.286667	7.946667	6.248000	101.184067
Freezing Drizzle	-5.657143	-8.000000	83.571429	16.571429	9.200000	100.202857
Freezing Drizzle,Fog	-2.533333	-4.183333	88.500000	17.000000	5.266667	100.441667
Freezing Drizzle, Haze	-5.433333	-8.000000	82.000000	10.333333	2.666667	100.316667
Freezing Drizzle,Snow	-5.109091	-7.072727	86.090909	16.272727	5.872727	100.520909
Freezing Fog	-7.575000	-9.250000	87.750000	4.750000	0.650000	102.320000
Freezing Rain	-3.885714	-6.078571	84.642857	19.214286	8.242857	99.647143
Freezing Rain,Fog	-2.225000	-3.750000	89.500000	15.500000	7.550000	99.945000
Freezing Rain,Haze	-4.900000	-7.450000	82.500000	7.500000	2.400000	100.375000
Freezing Rain, Ice Pellets, Fog	-2.600000	-3.700000	92.000000	28.000000	8.000000	100.950000
Freezing Rain, Snow Grains	-5.000000	-7.300000	84.000000	32.000000	4.800000	98.560000
Haze	-0.200000	-2.975000	81.625000	10.437500	7.831250	101.482500
Mainly Clear	12.558927	4.581671	60.667142	14.144824	34.264862	101.248832
Moderate Rain,Fog	1.700000	0.800000	94.000000	17.000000	6.400000	99.980000

Temp\_C Dew Point Temp\_C Rel Hum\_% Wind Speed\_km/h Visibility\_km Press\_kPa

	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather_Condition						
Moderate Snow	-5.525000	-7.250000	87.750000	33.750000	0.750000	100.275000
Moderate Snow, Blowing Snow	-5.450000	-6.500000	92.500000	40.000000	0.600000	100.570000
Mostly Cloudy	10.574287	3.131174	62.102465	15.813920	31.253842	101.025288
Rain	9.786275	7.042810	83.624183	19.254902	18.856536	100.233333
Rain Showers	13.722340	9.187766	75.159574	17.132979	22.816489	100.404043
Rain Showers, Fog	12.800000	12.100000	96.000000	13.000000	6.400000	99.830000
Rain Showers, Snow Showers	2.150000	-1.500000	76.500000	22.500000	21.700000	101.100000
Rain,Fog	8.273276	7.219828	93.189655	14.793103	6.873276	100.500862
Rain, Haze	4.633333	2.066667	83.333333	11.666667	6.700000	100.540000
Rain, Ice Pellets	0.600000	-0.600000	92.000000	24.000000	9.700000	100.120000
Rain,Snow	1.055556	-0.566667	89.000000	28.388889	11.672222	99.951111
Rain, Snow Grains	1.900000	-2.100000	75.000000	26.000000	25.000000	100.600000
Rain, Snow, Fog	0.800000	0.300000	96.000000	9.000000	6.400000	100.730000
Rain, Snow, Ice Pellets	1.100000	-0.175000	91.500000	23.250000	6.000000	100.105000
Snow	-4.524103	-7.623333	79.307692	20.038462	11.171795	100.536103
Snow Pellets	0.700000	-6.400000	59.000000	35.000000	2.400000	99.700000
Snow Showers	-3.506667	-7.866667	72.350000	19.233333	20.158333	100.963500
Snow Showers,Fog	-10.675000	-11.900000	90.750000	13.750000	7.025000	101.292500
Snow,Blowing Snow	-5.410526	-7.621053	84.473684	34.842105	4.105263	99.704737
Snow,Fog	-5.075676	-6.364865	90.675676	17.324324	4.537838	100.688649
Snow,Haze	-4.020000	-6.860000	80.600000	5.000000	4.640000	100.782000

	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather_Condition						
Snow,Ice Pellets	-1.883333	-3.666667	87.666667	23.833333	7.416667	100.548333
Thunderstorms	24.150000	19.750000	77.000000	7.500000	24.550000	100.230000
Thunderstorms, Heavy Rain Showers	10.900000	9.000000	88.000000	9.000000	2.400000	100.260000
Thunderstorms, Moderate Rain Showers, Fog	19.600000	18.500000	93.000000	15.000000	3.200000	100.010000
Thunderstorms, Rain	20.433333	18.533333	89.000000	15.666667	19.833333	100.420000
Thunderstorms, Rain Showers	20.037500	17.618750	86.375000	18.312500	15.893750	100.233750
Thunderstorms, Rain Showers, Fog	21.600000	18.700000	84.000000	19.666667	9.700000	100.063333
Thunderstorms, Rain, Fog	20.600000	18.600000	88.000000	19.000000	4.800000	100.080000
]:						
]: data.dtypes						
data2 = data[[ 'Temp_C', 'Dew Point Tem	np_C', 'Rel	Hum_%','Wind Spee	d_km/h', 'V:	isibility_km', 'Pr	ess_kPa', 'We	eather_Cond

In [48]: data2

Out[48]:		Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather_Condition
	0	-1.8	-3.9	86	4	8.0	101.24	Fog
	1	-1.8	-3.7	87	4	8.0	101.24	Fog
	2	-1.8	-3.4	89	7	4.0	101.26	Freezing Drizzle,Fog
	3	-1.5	-3.2	88	6	4.0	101.27	Freezing Drizzle,Fog
	4	-1.5	-3.3	88	7	4.8	101.23	Fog
	•••							
	8779	0.1	-2.7	81	30	9.7	100.13	Snow
	8780	0.2	-2.4	83	24	9.7	100.03	Snow
	8781	-0.5	-1.5	93	28	4.8	99.95	Snow
	8782	-0.2	-1.8	89	28	9.7	99.91	Snow
	8783	0.0	-2.1	86	30	11.3	99.89	Snow

In [49]: data2.groupby('Weather\_Condition').mean()

Out[49]:

Weather_Condition						
Clear	6.825716	0.089367	64.497738	10.557315	30.153243	101.587443
Cloudy	7.970544	2.375810	69.592593	16.127315	26.625752	100.911441
Drizzle	7.353659	5.504878	88.243902	16.097561	17.931707	100.435366
Drizzle,Fog	8.067500	7.033750	93.275000	11.862500	5.257500	100.786625
Drizzle,Ice Pellets,Fog	0.400000	-0.700000	92.000000	20.000000	4.000000	100.790000
Drizzle,Snow	1.050000	0.150000	93.500000	14.000000	10.500000	100.890000
Drizzle,Snow,Fog	0.693333	0.120000	95.866667	15.533333	5.513333	99.281333
Fog	4.303333	3.159333	92.286667	7.946667	6.248000	101.184067
Freezing Drizzle	-5.657143	-8.000000	83.571429	16.571429	9.200000	100.202857
Freezing Drizzle,Fog	-2.533333	-4.183333	88.500000	17.000000	5.266667	100.441667
Freezing Drizzle, Haze	-5.433333	-8.000000	82.000000	10.333333	2.666667	100.316667
Freezing Drizzle,Snow	-5.109091	-7.072727	86.090909	16.272727	5.872727	100.520909
Freezing Fog	-7.575000	-9.250000	87.750000	4.750000	0.650000	102.320000
Freezing Rain	-3.885714	-6.078571	84.642857	19.214286	8.242857	99.647143
Freezing Rain,Fog	-2.225000	-3.750000	89.500000	15.500000	7.550000	99.945000
Freezing Rain,Haze	-4.900000	-7.450000	82.500000	7.500000	2.400000	100.375000
Freezing Rain, Ice Pellets, Fog	-2.600000	-3.700000	92.000000	28.000000	8.000000	100.950000
Freezing Rain, Snow Grains	-5.000000	-7.300000	84.000000	32.000000	4.800000	98.560000
Haze	-0.200000	-2.975000	81.625000	10.437500	7.831250	101.482500
Mainly Clear	12.558927	4.581671	60.667142	14.144824	34.264862	101.248832
Moderate Rain,Fog	1.700000	0.800000	94.000000	17.000000	6.400000	99.980000

Temp\_C Dew Point Temp\_C Rel Hum\_% Wind Speed\_km/h Visibility\_km Press\_kPa

	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather_Condition						
Moderate Snow	-5.525000	-7.250000	87.750000	33.750000	0.750000	100.275000
Moderate Snow, Blowing Snow	-5.450000	-6.500000	92.500000	40.000000	0.600000	100.570000
Mostly Cloudy	10.574287	3.131174	62.102465	15.813920	31.253842	101.025288
Rain	9.786275	7.042810	83.624183	19.254902	18.856536	100.233333
Rain Showers	13.722340	9.187766	75.159574	17.132979	22.816489	100.404043
Rain Showers, Fog	12.800000	12.100000	96.000000	13.000000	6.400000	99.830000
Rain Showers, Snow Showers	2.150000	-1.500000	76.500000	22.500000	21.700000	101.100000
Rain,Fog	8.273276	7.219828	93.189655	14.793103	6.873276	100.500862
Rain, Haze	4.633333	2.066667	83.333333	11.666667	6.700000	100.540000
Rain, Ice Pellets	0.600000	-0.600000	92.000000	24.000000	9.700000	100.120000
Rain,Snow	1.055556	-0.566667	89.000000	28.388889	11.672222	99.951111
Rain, Snow Grains	1.900000	-2.100000	75.000000	26.000000	25.000000	100.600000
Rain, Snow, Fog	0.800000	0.300000	96.000000	9.000000	6.400000	100.730000
Rain, Snow, Ice Pellets	1.100000	-0.175000	91.500000	23.250000	6.000000	100.105000
Snow	-4.524103	-7.623333	79.307692	20.038462	11.171795	100.536103
Snow Pellets	0.700000	-6.400000	59.000000	35.000000	2.400000	99.700000
Snow Showers	-3.506667	-7.866667	72.350000	19.233333	20.158333	100.963500
Snow Showers,Fog	-10.675000	-11.900000	90.750000	13.750000	7.025000	101.292500
Snow,Blowing Snow	-5.410526	-7.621053	84.473684	34.842105	4.105263	99.704737
Snow,Fog	-5.075676	-6.364865	90.675676	17.324324	4.537838	100.688649
Snow,Haze	-4.020000	-6.860000	80.600000	5.000000	4.640000	100.782000

	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather_Condition						
Snow,Ice Pellets	-1.883333	-3.666667	87.666667	23.833333	7.416667	100.548333
Thunderstorms	24.150000	19.750000	77.000000	7.500000	24.550000	100.230000
Thunderstorms, Heavy Rain Showers	10.900000	9.000000	88.000000	9.000000	2.400000	100.260000
Thunderstorms, Moderate Rain Showers, Fog	19.600000	18.500000	93.000000	15.000000	3.200000	100.010000
Thunderstorms, Rain	20.433333	18.533333	89.000000	15.666667	19.833333	100.420000
Thunderstorms, Rain Showers	20.037500	17.618750	86.375000	18.312500	15.893750	100.233750
Thunderstorms, Rain Showers, Fog	21.600000	18.700000	84.000000	19.666667	9.700000	100.063333
Thunderstorms, Rain, Fog	20.600000	18.600000	88.000000	19.000000	4.800000	100.080000

In [50]: data.groupby('Weather\_Condition').min()

Out[50]:

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather_Condition							
Clear	1/11/2012 1:00	-23.3	-28.5	20	0	11.3	99.52
Cloudy	1/1/2012 17:00	-21.4	-26.8	18	0	11.3	98.39
Drizzle	1/23/2012 21:00	1.1	-0.2	74	0	6.4	97.84
Drizzle,Fog	1/23/2012 20:00	0.0	-1.6	85	0	1.0	98.65
Drizzle,Ice Pellets,Fog	12/17/2012 9:00	0.4	-0.7	92	20	4.0	100.79
Drizzle,Snow	12/17/2012 15:00	0.9	0.1	92	9	9.7	100.63
Drizzle,Snow,Fog	12/18/2012 21:00	0.3	-0.1	92	7	2.4	97.79
Fog	1/1/2012 0:00	-16.0	-17.2	80	0	0.2	98.31
Freezing Drizzle	1/13/2012 10:00	-9.0	-12.2	78	6	4.8	98.44
Freezing Drizzle,Fog	1/1/2012 2:00	-6.4	-9.0	82	6	3.6	98.74
Freezing Drizzle,Haze	2/1/2012 11:00	-5.8	-8.3	81	9	2.0	100.28
Freezing Drizzle,Snow	1/13/2012 3:00	-8.3	-10.4	79	6	2.4	99.19
Freezing Fog	1/22/2012 6:00	-19.0	-22.9	71	0	0.2	101.97
Freezing Rain	1/13/2012 11:00	-6.5	-9.0	81	7	2.8	98.22
Freezing Rain,Fog	1/17/2012 23:00	-6.1	-8.7	82	7	2.8	98.32
Freezing Rain,Haze	2/1/2012 14:00	-4.9	-7.5	82	6	2.0	100.34

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather_Condition							
Freezing Rain,Ice Pellets,Fog	12/17/2012 3:00	-2.6	-3.7	92	28	8.0	100.95
Freezing Rain, Snow Grains	1/13/2012 9:00	-5.0	-7.3	84	32	4.8	98.56
Haze	1/22/2012 12:00	-11.5	-16.0	68	0	4.8	100.35
Mainly Clear	1/10/2012 11:00	-22.8	-28.0	20	0	12.9	98.67
Moderate Rain,Fog	12/10/2012 8:00	1.7	0.8	94	17	6.4	99.98
Moderate Snow	1/12/2012 15:00	-6.3	-7.6	83	26	0.6	99.88
Moderate Snow,Blowing Snow	12/27/2012 10:00	-5.5	-6.6	92	39	0.6	100.50
Mostly Cloudy	1/1/2012 16:00	-23.2	-28.5	18	0	11.3	98.36
Rain	1/1/2012 18:00	0.3	-5.7	40	0	4.0	97.52
Rain Showers	1/1/2012 22:00	1.6	-7.2	37	0	6.4	98.51
Rain Showers, Fog	10/20/2012 3:00	12.8	12.1	96	13	6.4	99.83
Rain Showers, Snow Showers	11/4/2012 8:00	2.1	-1.8	75	17	19.3	101.09
Rain,Fog	1/23/2012 18:00	0.0	-1.2	83	0	2.0	98.61
Rain, Haze	3/13/2012 7:00	4.0	1.0	81	7	4.0	100.50
Rain,Ice Pellets	12/18/2012 5:00	0.6	-0.6	92	24	9.7	100.12

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather_Condition							
Rain, Snow	1/10/2012 5:00	0.6	-1.7	81	13	2.4	98.18
Rain, Snow Grains	12/21/2012 0:00	1.9	-2.1	75	26	25.0	100.60
Rain,Snow,Fog	12/8/2012 21:00	0.8	0.3	96	9	6.4	100.73
Rain, Snow, Ice Pellets	12/21/2012 1:00	0.9	-0.7	88	17	4.8	99.85
Snow	1/10/2012 1:00	-16.7	-24.6	41	0	1.0	97.75
Snow Pellets	11/24/2012 15:00	0.7	-6.4	59	35	2.4	99.70
Snow Showers	1/12/2012 7:00	-13.3	-19.3	52	0	2.4	99.49
Snow Showers,Fog	12/26/2012 9:00	-11.3	-12.7	89	7	4.0	100.63
Snow,Blowing Snow	1/13/2012 21:00	-12.0	-16.2	70	24	0.6	98.11
Snow,Fog	12/16/2012 15:00	-10.1	-12.0	77	4	1.2	99.38
Snow,Haze	2/1/2012 17:00	-4.3	-7.2	80	0	4.0	100.61
Snow, Ice Pellets	12/10/2012 3:00	-4.3	-5.9	76	19	2.8	99.40
Thunderstorms	7/16/2012 1:00	21.6	19.4	67	0	24.1	99.84
Thunderstorms, Heavy Rain Showers	5/29/2012 6:00	10.9	9.0	88	9	2.4	100.26
Thunderstorms, Moderate Rain Showers, Fog	7/17/2012 6:00	19.6	18.5	93	15	3.2	100.01

Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
5/25/2012 20:00	19.4	18.2	83	4	16.1	100.19
5/29/2012 16:00	11.0	7.0	68	7	6.4	99.65
6/29/2012 3:00	19.5	16.1	80	7	9.7	99.71
7/17/2012 5:00	20.6	18.6	88	19	4.8	100.08
	5/25/2012 20:00 5/29/2012 16:00 6/29/2012 3:00	5/25/2012 20:00 19.4 5/29/2012 16:00 11.0 6/29/2012 3:00 19.5	Date/Time         Temp_C           5/25/2012 20:00         19.4         18.2           5/29/2012 16:00         11.0         7.0           6/29/2012 3:00         19.5         16.1	Date/Time         Temp_C         Temp_C         Hum_%           5/25/2012 20:00         19.4         18.2         83           5/29/2012 16:00         11.0         7.0         68           6/29/2012 3:00         19.5         16.1         80	Date/Time         Temp_C         Hum_%         Speed_km/h           5/25/2012 20:00         19.4         18.2         83         4           5/29/2012 16:00         11.0         7.0         68         7           6/29/2012 3:00         19.5         16.1         80         7	Date/Time         Temp_C         Hum_%         Speed_km/h         Visibility_km           5/25/2012 20:00         19.4         18.2         83         4         16.1           5/29/2012 16:00         11.0         7.0         68         7         6.4           6/29/2012 3:00         19.5         16.1         80         7         9.7

In [51]: data.groupby('Weather\_Condition').max()

Out[51]:

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather_Condition							
Clear	9/9/2012 5:00	32.8	20.4	99	33	48.3	103.63
Cloudy	9/9/2012 23:00	30.5	22.6	99	54	48.3	103.65
Drizzle	9/30/2012 3:00	18.8	17.7	96	30	25.0	101.56
Drizzle,Fog	9/30/2012 2:00	19.9	19.1	100	28	9.7	102.07
Drizzle,Ice Pellets,Fog	12/17/2012 9:00	0.4	-0.7	92	20	4.0	100.79
Drizzle,Snow	12/19/2012 18:00	1.2	0.2	95	19	11.3	101.15
Drizzle,Snow,Fog	12/22/2012 3:00	1.1	0.6	98	32	9.7	100.15
Fog	9/22/2012 0:00	20.8	19.6	100	22	9.7	103.04
Freezing Drizzle	2/1/2012 5:00	-2.3	-3.3	93	26	12.9	101.02
Freezing Drizzle,Fog	12/10/2012 5:00	-0.3	-2.3	94	33	8.0	101.27
Freezing Drizzle,Haze	2/1/2012 13:00	-5.0	-7.7	83	11	4.0	100.36
Freezing Drizzle,Snow	3/2/2012 12:00	-3.3	-4.6	94	24	12.9	101.18
Freezing Fog	3/17/2012 6:00	-0.1	-0.3	99	9	0.8	102.85
Freezing Rain	2/1/2012 7:00	0.3	-1.7	92	28	16.1	101.00
Freezing Rain,Fog	12/17/2012 1:00	0.1	-0.9	93	26	9.7	101.01
Freezing Rain,Haze	2/1/2012 15:00	-4.9	-7.4	83	9	2.8	100.41
Freezing Rain,Ice Pellets,Fog	12/17/2012 3:00	-2.6	-3.7	92	28	8.0	100.95

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather_Condition							
Freezing Rain, Snow Grains	1/13/2012 9:00	-5.0	-7.3	84	32	4.8	98.56
Haze	3/13/2012 23:00	14.1	11.1	86	17	9.7	102.97
Mainly Clear	9/9/2012 9:00	33.0	21.2	99	63	48.3	103.59
Moderate Rain,Fog	12/10/2012 8:00	1.7	0.8	94	17	6.4	99.98
Moderate Snow	12/27/2012 9:00	-4.9	-6.7	93	39	0.8	100.67
Moderate Snow,Blowing Snow	12/27/2012 12:00	-5.4	-6.4	93	41	0.6	100.64
Mostly Cloudy	9/9/2012 2:00	32.4	24.4	100	83	48.3	103.65
Rain	9/5/2012 2:00	22.8	20.4	99	52	48.3	102.26
Rain Showers	9/8/2012 16:00	26.4	23.0	97	41	48.3	102.31
Rain Showers,Fog	10/20/2012 3:00	12.8	12.1	96	13	6.4	99.83
Rain Showers, Snow Showers	12/5/2012 10:00	2.2	-1.2	78	28	24.1	101.11
Rain,Fog	9/30/2012 23:00	21.7	19.5	100	46	9.7	101.77
Rain,Haze	3/13/2012 9:00	5.5	2.9	86	17	9.7	100.61
Rain,Ice Pellets	12/18/2012 5:00	0.6	-0.6	92	24	9.7	100.12
Rain, Snow	4/23/2012 3:00	1.7	0.5	94	52	25.0	101.07

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather_Condition							
Rain,Snow Grains	12/21/2012 0:00	1.9	-2.1	75	26	25.0	100.60
Rain,Snow,Fog	12/8/2012 21:00	0.8	0.3	96	9	6.4	100.73
Rain, Snow, Ice Pellets	12/21/2012 5:00	1.3	0.1	94	28	6.4	100.47
Snow	4/27/2012 9:00	3.7	0.3	96	57	25.0	102.73
Snow Pellets	11/24/2012 15:00	0.7	-6.4	59	35	2.4	99.70
Snow Showers	3/4/2012 21:00	2.9	-0.7	94	37	48.3	102.50
Snow Showers,Fog	12/29/2012 13:00	-10.0	-11.1	92	22	9.7	102.52
Snow,Blowing Snow	2/25/2012 9:00	-1.4	-2.9	91	48	9.7	100.62
Snow,Fog	3/14/2012 19:00	1.1	0.8	99	35	9.7	102.07
Snow, Haze	2/1/2012 21:00	-3.6	-6.4	81	15	6.4	100.99
Snow, Ice Pellets	3/3/2012 4:00	0.8	-1.7	92	33	11.3	100.96
Thunderstorms	7/4/2012 16:00	26.7	20.1	87	15	25.0	100.62
Thunderstorms, Heavy Rain Showers	5/29/2012 6:00	10.9	9.0	88	9	2.4	100.26
Thunderstorms, Moderate Rain Showers, Fog	7/17/2012 6:00	19.6	18.5	93	15	3.2	100.01
Thunderstorms, Rain	7/23/2012 18:00	21.3	19.1	93	30	24.1	100.83
Thunderstorms, Rain Showers	9/8/2012 4:00	25.5	23.1	98	32	25.0	101.06

	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa
Weather_Condition							
Thunderstorms, Rain Showers, Fog	7/31/2012 20:00	22.9	21.3	91	35	9.7	100.64
Thunderstorms, Rain, Fog	7/17/2012 5:00	20.6	18.6	88	19	4.8	100.08

In [53]: data[(data['Weather\_Condition'] == 'Clear') | (data['Visibility\_km'] > 40)]

Out[53]:

•	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather_Condition
67	1/3/2012 19:00	-16.9	-24.8	50	24	25.0	101.74	Clear
106	1/5/2012 10:00	-6.0	-10.0	73	17	48.3	100.45	Mainly Clear
107	1/5/2012 11:00	-5.6	-10.2	70	22	48.3	100.41	Mainly Clear
108	1/5/2012 12:00	-4.7	-9.6	69	20	48.3	100.38	Mainly Clear
109	1/5/2012 13:00	-4.4	-9.7	66	26	48.3	100.40	Mainly Clear
•••								
8749	12/30/2012 13:00	-12.4	-16.2	73	37	48.3	100.92	Mostly Cloudy
8750	12/30/2012 14:00	-11.8	-16.1	70	37	48.3	100.96	Mainly Clear
8751	12/30/2012 15:00	-11.3	-15.6	70	32	48.3	101.05	Mainly Clear
8752	12/30/2012 16:00	-11.4	-15.5	72	26	48.3	101.15	Mainly Clear
8756	12/30/2012 20:00	-13.8	-16.5	80	24	25.0	101.52	Clear

3027 rows × 8 columns

Out[57]:		Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather_Condition
	36	1/2/2012 12:00	1.7	-6.2	56	48	24.1	99.21	Mainly Clear
	60	1/3/2012 12:00	-14.9	-22.6	52	20	24.1	101.34	Mainly Clear
	61	1/3/2012 13:00	-15.1	-22.4	54	22	24.1	101.34	Mainly Clear
	62	1/3/2012 14:00	-14.9	-22.9	50	22	24.1	101.38	Mainly Clear
	63	1/3/2012 15:00	-14.8	-22.2	53	19	24.1	101.44	Mainly Clear
	•••								
	8754	12/30/2012 18:00	-12.6	-16.0	76	24	25.0	101.36	Mainly Clear
	8755	12/30/2012 19:00	-13.4	-16.5	77	26	25.0	101.47	Mainly Clear
	8756	12/30/2012 20:00	-13.8	-16.5	80	24	25.0	101.52	Clear
	8757	12/30/2012 21:00	-13.8	-16.5	80	20	25.0	101.50	Mainly Clear
	8758	12/30/2012 22:00	-13.7	-16.3	81	19	25.0	101.54	Mainly Clear

```
In [59]: data[(data['Weather_Condition'].str.contains('Clear', case=True)) & (data['Visibility_km'] > 40)].Weather_Condition.unique()
Out[59]: array(['Mainly Clear', 'Clear'], dtype=object)
In [60]: data[(data['Weather_Condition'] == 'Clear') & (data['Visibility_km'] > 40)].Weather_Condition.unique()
Out[60]: array(['Clear'], dtype=object)
In [61]: data[((data['Weather_Condition'] == 'Clear') & (data['Rel Hum_%'] > 50)) | (data['Visibility_km'] > 40)]
```

-	F 7	
()11+	1611	
Ou L	IOTI	

•	Date/Time	Temp_C	Dew Point Temp_C	Rel Hum_%	Wind Speed_km/h	Visibility_km	Press_kPa	Weather_Condition
106	1/5/2012 10:00	-6.0	-10.0	73	17	48.3	100.45	Mainly Clear
107	1/5/2012 11:00	-5.6	-10.2	70	22	48.3	100.41	Mainly Clear
108	1/5/2012 12:00	-4.7	-9.6	69	20	48.3	100.38	Mainly Clear
109	1/5/2012 13:00	-4.4	-9.7	66	26	48.3	100.40	Mainly Clear
110	1/5/2012 14:00	-5.1	-10.7	65	22	48.3	100.46	Mainly Clear
•••	<b></b>	•••				<b></b>		
8749	12/30/2012 13:00	-12.4	-16.2	73	37	48.3	100.92	Mostly Cloudy
8750	12/30/2012 14:00	-11.8	-16.1	70	37	48.3	100.96	Mainly Clear
8751	12/30/2012 15:00	-11.3	-15.6	70	32	48.3	101.05	Mainly Clear
8752	12/30/2012 16:00	-11.4	-15.5	72	26	48.3	101.15	Mainly Clear
8756	12/30/2012 20:00	-13.8	-16.5	80	24	25.0	101.52	Clear

In [ ]: